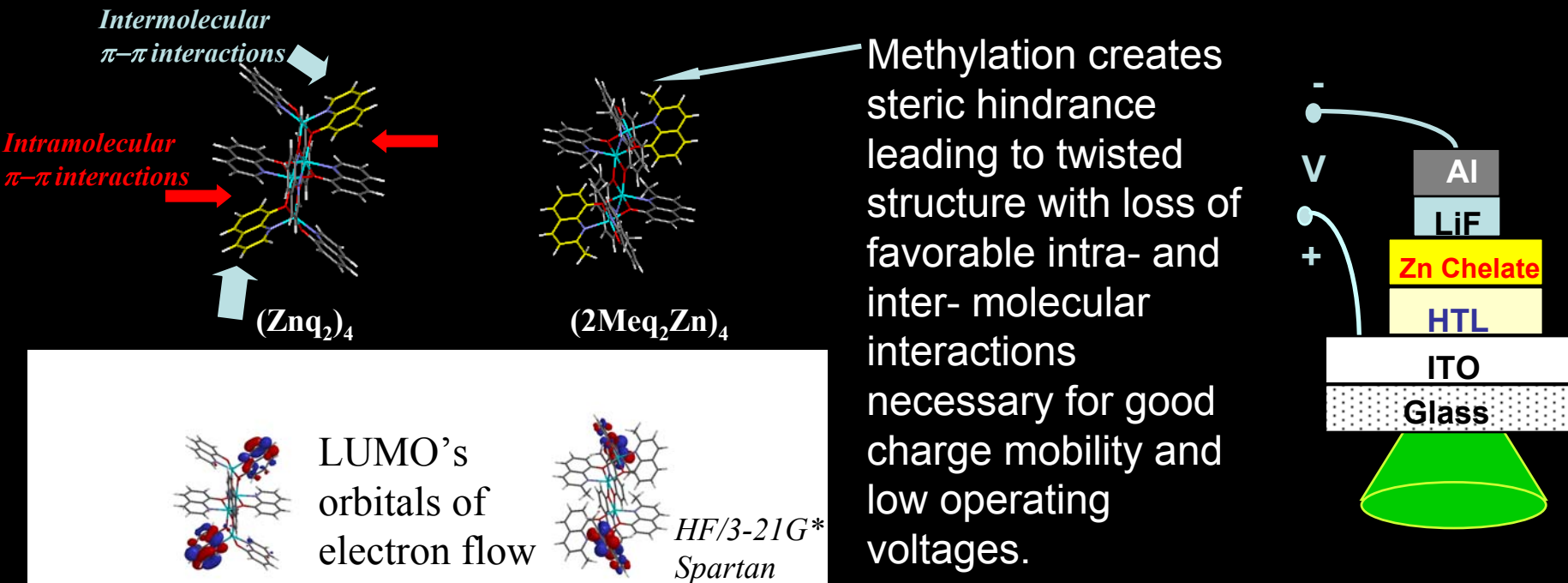


Correlating Molecular and Electronic Structure to Organic Light-Emitting Device Performance

Linda S. Sapochak, University of Nevada L, DMR-9874765

Organic light-emitting device (OLED) technology has matured over the last decade and the first consumer products are now available. However, application of this technology for energy efficient solid-state lighting requires detailed understanding of the materials at the molecular scale. Correlation of both the molecular and electronic structure to device performance for zinc organic chelates provides a molecular scale toolkit for lowering operating voltages.



***CAREER* - Investigations of Organic Electroluminescent Materials and Devices: A Program in Multidisciplinary Student Research**

***Linda S. Sapochak
Department of Chemistry
Univ. of Nevada Las Vegas
(Master Degree granting
department)***

7- M.S. Degree Students— graduated and currently pursuing Ph.D.

Over 20 Undergraduate Student Researchers supported or partially supported on this project.

(7 undergrad. students were coauthors on peer-reviewed journal articles)

Includes undergraduate and graduate students from:

Chemistry, Biology, Physics, & Electrical Engineering

All students gained a broad research experience in molecular design, synthesis, material characterization, as well as device fabrication and testing.